(19) World Intellectual Property Organization International Bureau



T HE BLE ENGLED IN BURNE HELD BOUND ENGLED BOND IN HER BURNE BOND BURNE HELD BOND BURNE HELD BOND BOND HER HELD

(43) International Publication Date 21 July 2005 (21.07.2005)

PCT

(10) International Publication Number WO 2005/065680 A1

(51) International Patent Classification⁷: C07D 235/30, 403/12

A61K 31/41,

(21) International Application Number:

PCT/US2004/042068

(22) International Filing Date:

15 December 2004 (15.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/531,213

19 December 2003 (19.12.2003) US

(71) Applicant (for all designated States except US): MERCK & CO., INC. [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): PARMEE, Emma, R. [GB/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). KIM, Ronald, M. [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). ROUSE, Elizabeth, A. [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). SCHMIDT, Darby, R. [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). SINZ, Christopher Joseph [US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US). CHANG, Jiang

[US/US]; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US).

- (74) Common Representative: MERCK & CO., INC.; 126 East Lincoln Avenue, Rahway, New Jersey 07065-0907 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CYCLIC GUANIDINES, COMPOSITIONS CONTAINING SUCH COMPOUNDS AND METHODS OF USE

(57) Abstract: The present invention relates to cyclic guanidines, compositions containing such compounds and methods of treatment. The compounds are glucagon receptor antagonists and thus are useful for treating, preventing or delaying the onset of type 2 diabetes mellitus.